## Claims

- 1. A method of analyzing the interaction of a molecule A and a molecule B that exhibits a specific interaction with the
- 5 molecule A, which comprises at least the following steps:
  - (1) a step of preparing a molecule A-immobilized solid phase support mixture by binding a molecule A to a solid phase support without specifying the binding position on the molecule A side.
- (2) a step of bringing a sample containing or not containing a molecule B into contact with the solid phase support mixture prepared in (1) above, and
- (3) a step of identifying a molecule that has exhibited or has not exhibited a specific interaction with the molecule A, and analyzing the interaction of the molecule A and the molecule B.
- 2. The method of claim 1, which comprises introducing a spacer between the molecule A and the solid phase support, without specifying the introduction position on the molecule A side, in the step of preparing the molecule A-immobilized solid phase support mixture.
- 3. The method of claim 1, wherein (1) a functional group is introduced to the molecule A, and (2) the introduction of the functional group is conducted without specifying the introduction position on the molecule A side, in the step of preparing the molecule A-immobilized solid phase support mixture.
- 30 4. The method of claim 2, wherein the introduction of the spacer to the molecule A is conducted via a functional group introduced without specifying the introduction position on the molecule A side.

5. The method of claim 3 or claim 4, wherein the introduction of the functional group to the molecule A without specifying the introduction position on the molecule A side is based on a chemical reaction or an enzymatic reaction.

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6. The method of claim 5, wherein the introduction of the functional group to the molecule A without specifying the introduction position on the molecule A side is based on an enzymatic reaction.

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- 7. The method of claim 6, wherein the enzymatic reaction is conducted using a metabolic enzyme.
- 8. A method of selecting a molecule B that exhibits a specific interaction with a molecule A, which comprises at least the following steps:
- (1) a step of preparing a molecule A-immobilized solid phase support mixture by binding a molecule A to a solid phase support without specifying the binding position on the molecule 20 A side,
  - (2) a step of bringing a sample containing or not containing a molecule B into contact with the solid phase support mixture prepared in (1) above, and
- (3) a step of identifying a molecule that has exhibited or has 25 not exhibited a specific interaction with the molecule A, and selecting the molecule B.
- 9. The method of claim 8, which comprises introducing a spacer between the molecule A and the solid phase support, without specifying the introduction position on the molecule A side, in the step of preparing the molecule A-immobilized solid phase support mixture.
  - 10. The method of claim 8, wherein (1) a functional group is

introduced to the molecule A, and (2) the introduction of the functional group is conducted without specifying the introduction position on the molecule A side, in the step of preparing the molecule A-immobilized solid phase support 5 mixture.

- 11. The method of claim 9, wherein the introduction of the spacer to the molecule A is conducted via a functional group introduced without specifying the introduction position on the molecule A side.
- 12. The method of claim 10 or claim 11, wherein the introduction of the functional group to the molecule A without specifying the introduction position on the molecule A side is based on a chemical reaction or an enzymatic reaction.
- 13. The method of claim 12, wherein the introduction of the functional group to the molecule A without specifying the introduction position on the molecule A side is based on an enzymatic reaction.
  - 14. The method of claim 13, wherein the enzymatic reaction is conducted using a metabolic enzyme.
- 25 15. A molecule A-immobilized solid phase support mixture comprising two or more kinds of molecule A-immobilized solid phase supports prepared by binding a molecule A to solid phase supports without specifying the binding position on the molecule A side, wherein said two or more kinds of molecule A-immobilized solid phase supports have the molecule A immobilized thereto at respective different positions on the molecule A.
  - 16. The molecule A-immobilized solid phase support mixture of

claim 15, wherein the binding of the molecule A to the solid phase support is conducted via a spacer introduced between the molecule A and the solid phase support without specifying the introduction position on the molecule A side.

- 17. The molecule A-immobilized solid phase support mixture of claim 15, wherein (1) the binding of the molecule A to the solid phase support is conducted via a functional group introduced to the molecule A, and (2) the introduction of the
- 10 functional group is conducted without specifying the introduction position on the molecule A side.
  - 18. The molecule A-immobilized solid phase support mixture of claim 16, wherein the introduction of the spacer to the
- 15 molecule A is conducted via a functional group introduced without specifying the introduction position on the molecule A side.
- 19. The molecule A-immobilized solid phase support mixture of claim 17 or claim 18, wherein the introduction of the functional group to the molecule A without specifying the introduction position on the molecule A side is based on a chemical reaction or an enzymatic reaction.
- 25 20. The molecule A-immobilized solid phase support mixture of claim 19, wherein the introduction of the functional group to the molecule A without specifying the introduction position on the molecule A side is based on an enzymatic reaction.
- 30 21. The molecule A-immobilized solid phase support mixture of claim 20, wherein the enzymatic reaction is conducted using a metabolic enzyme.
  - 22. The molecule A-immobilized solid phase support mixture of

any one of claim 15 to claim 21, which is a solid phase support for affinity chromatography.

- 23. A production method for a solid phase support for affinity chromatography comprising binding a molecule A to a solid phase support without specifying the binding position on the molecule A side, and preparing a molecule A-immobilized solid phase support mixture comprising two or more kinds of molecule A-immobilized solid phase supports, wherein said two or more kinds of molecule A-immobilized solid phase supports have the molecule A immobilized thereto at respective different positions on the molecule A.
- 24. The production method of claim 23 for a solid phase support for affinity chromatography, wherein the binding of the molecule A to the solid phase support is conducted via a spacer introduced between the molecule A and the solid phase support without specifying the introduction position on the molecule A side.

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- 25. The production method of claim 23 for a solid phase support for affinity chromatography, wherein (1) the binding of the molecule A to the solid phase support is conducted via a functional group introduced to the molecule A, and (2) the introduction of the functional group is conducted without specifying the introduction position on the molecule A side.
- 26. The production method of claim 24 for a solid phase support for affinity chromatography, wherein the introduction of the spacer to the molecule A is conducted via a functional group introduced without specifying the introduction position on the molecule A side.
  - 27. The production method of claim 25 or claim 26 for a solid

phase support for affinity chromatography, wherein the introduction of the functional group to the molecule A conducted without specifying the introduction position on the molecule A side is based on a chemical reaction or an enzymatic reaction.

- 28. The production method of claim 27 for a solid phase support for affinity chromatography, wherein the introduction of the functional group to the molecule A conducted without specifying the introduction position on the molecule A side is based on an enzymatic reaction.
- 29. The production method of claim 28 for a solid phase support for affinity chromatography, wherein the enzymatic reaction is conducted using a metabolic enzyme.
- 30. A screening method for a molecule B that exhibits a specific interaction with a molecule A, which comprises at least (1) a step of bringing a sample containing or not containing a molecule B into contact with the molecule A-immobilized solid phase support mixture of any one of claim 15 to claim 22, and (2) a step of identifying a molecule that has exhibited or has not exhibited a specific interaction with the molecule A, and selecting the molecule B.

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